

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 10305661
PUBLICATION DATE : 17-11-98

APPLICATION DATE : 09-05-97
APPLICATION NUMBER : 09119388

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INT.CL. : B41M 5/26 B23K 26/00 C08J 7/00 C08K 3/22 C08K 7/18 C08L 23/00 C08L101/00

TITLE : LASER MARKING METHOD AND RESIN COMPOSITION FOR LASER MARKING

ABSTRACT : PROBLEM TO BE SOLVED: To color in an arbitrary color and to clearly mark by emitting a laser beam even by adding a small amount.

SOLUTION: The laser marking having satisfactory visibility is obtained without coloring a base material by filler by emitting a laser beam to thermoplastic resin composition in which non-black non-metal inorganic conductive filler or preferably zinc oxide substance is dispersed and mixed. A filler content in the composition is preferably 0.05 to 30 wt.% and its mean particle size is preferably 20 μm or less. As the resin component, olefin resin is preferable. A molding of a beautiful color is obtained by using desired colorant having high transparency without coloring in suitable combination of conditions. Various laser such as a YAG laser, carbon dioxide gas laser selected from a wide wavelength region is usable with small energy density.

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